

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/611,551	06/30/2003		Susan I. Shelso	10527-794001 / 02-260	10527-794001 / 02-260 5002	
26161	7590	10/24/2006		EXAMINER		
FISH & RIO		SON PC	TYSON, MELANIE RUANO			
		55440-1022		ART UNIT	PAPER NUMBER	
	•			3731		

DATE MAILED: 10/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/611,551	SHELSO, SUSAN I.					
Office Action Summary	Examiner	Art Unit					
	Melanie Tyson	3731					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 S	September 2006.						
,	, 						
•	· 						
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-14 and 16-27 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 and 16-27 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on 29 September 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	are: a)⊠ accepted or b)☐ object drawing(s) be held in abeyance. Set tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received tu (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)	»П., . .	· (DTO 442)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/12/06. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate					

Application/Control Number: 10/611,551 Page 2

Art Unit: 3731

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 6-14, and 21-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Cox et al. (US 2003/0212451 A1). Cox et al. disclose a grip constructed from polymeric material (polyether block amides; paragraph 79) for engaging a stent (Figure 18) comprising a tapered body region (40 and 100) having a first end (defined at a point midway between tapered edge 101) and a second end (defined at a point next to marker 42), a hub region (defined as the second half of tapered edge 101 extending through distal end 108, in which the region at the crest of tapered edge 101 has a diameter greater than the diameter of the first body region), and a radiopaque portion (104; paragraph 79). Cox et al. further disclose a catheter (refer to Figure 1) having an inner shaft (Figure 18, element 35) and a retractable sheath (52), a grip engaged to the inner shaft (35), and an expandable stent (80) comprising a plurality of struts disposed about the inner shaft (35) and engaged to, or mounted on, a portion of the body region of the grip. Figure 18 illustrates the sheath (52) has been retracted and the stent is in an expanded configuration positioned adjacent to the hub region. However, Figure 1

Art Unit: 3731

illustrates the sheath overlying the stent, which clearly shows that the outer diameter of the first end of the grip is greater than the outer diameter of the stent when the stent is in an unexpanded configuration. Furthermore, the grip member disclosed by Cox et al. is inherently capable of reducing the longitudinal force the catheter exerts on the struts since the grip reduces the potential space between the inner catheter shaft (35) and the retractable sheath (52).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 4, 5, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox et al. Cox et al. disclose the claimed invention except for the specific hardness of the grip. It is well known in the art that materials such as polyether block amide may have a hardness within the ranges claimed. It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct

Application/Control Number: 10/611,551 Page 4

Art Unit: 3731

the grip with a hardness of about 60 to about 90, or of 70 to about 90, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over 6. Cox et al. in view of Gunderson (US 2004/0204749 A1). Cox et al. disclose a grip as described above, however, do not disclose two grip members disposed about the inner shaft of the catheter. Gunderson teaches a stent delivery system comprising grips (Figure 8) for engaging a stent. Figure 8 shows a first grip (10) and a second grip (not labeled), with the second end of the body region of the first grip being substantially adjacent to the second end of the body region of the second grip. Figure 8 also shows a stent (26), where in the unexpanded state the first end portion of the stent (26) is engaged to at least a portion of the body region of the first grip (10), and the second end portion of the stent is engaged to at least a portion of the body region of the second grip (not labeled). Furthermore, Figure 8 shows the body portion of the stent overlies the second end of the body regions of both grips. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize two grips as taught by Gunderson in the stent delivery system of Cox et al. in order to provide a stent delivery system that may reduce or eliminate occurrences of stent jumping, in turn improving the accuracy of stent placement within a vessel or other body space (paragraph 10).

Application/Control Number: 10/611,551 Page 5

Art Unit: 3731

Response to Arguments

7. Applicant's arguments filed 12 September 2006 have been fully considered but they are not persuasive (see rejection above). In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Gunderson teaches that many delivery systems provide the catheter shaft with one or more grips in order to provide a stent delivery system that may reduce or eliminate occurrences of stent jumping, in turn improving the accuracy of stent placement within a vessel or other body space (see paragraphs 8 and 10). Therefore, there is suggestion to combine these references and it would have been obvious to one of ordinary skill in the art to utilize two grips in the stent delivery system of Cox et al as taught by Gunderson.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Tyson whose telephone number is (571) 272-9062. The examiner can normally be reached on Monday through Thursday 9:00 a.m. - 6:30 p.m., alternate Fridays 9:00 a.m. - 5:30 p.m. EST.

Page 6

Application/Control Number: 10/611,551

Art Unit: 3731

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Anhtuan Nguyen can be reached on (571) 272-4963. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie Tyson M

October 18, 2006